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动物分类学报

曲板叶蝉属一新种及一新纪录种 (半翅目，叶蝉科，片角叶蝉亚科)

张 斌[1,2] 李子忠[1] 齐宝瑛[2]

1. 贵州大学昆虫研究所 贵阳 550025
2. 内蒙古师范大学生命科学与技术学院 呼和浩特 010022, E-mail: zhangbin@imnu.edu.cn

摘 要 记述曲板叶蝉属1新种齿突曲板叶蝉 *Tautocerus serristleus* sp. nov., 中国1新纪录种德氏曲板叶蝉 *Tautocerus dworakowskae* Anufriev, 模式标本保存于贵州大学昆虫研究所。

关键词 半翅目，叶蝉科，片角叶蝉亚科，曲板叶蝉属，新种，新纪录.
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曲板叶蝉属 *Tautocerus* 隶属于半翅目 Hemiptera 叶蝉科 Cicadellidae 片角叶蝉亚科 Idiocerinae，片角叶蝉族 Idiocerini，由 Anufriev (1971) 以 *Tautocerus dworakowskae* 为模式种建立。本属目前全世界已记载3种，中国已知1种。本文记述1新种齿突曲板叶蝉 *Tautocerus serristleus* 及1新纪录种德氏曲板叶蝉 *Tautocerus dworakowskae* Anufriev。模式标本保存于贵州大学昆虫研究所。

属征 头部与前胸向前下方倾斜，约与体轴成30~40度角。头冠宽短，中长略小于复眼处冠长，前缘有1对黑色圆斑。颜面三角形，宽大于长，基部复眼后角分布有黑色三角斑。单眼位于额缝末端，单眼之间距离大于单眼至复眼间距离。前唇基长方形，后唇基宽卵圆形。触角末端膨大成长片状，舌侧板狭小，颊侧缘末端超出前唇基端部。前胸背板前缘弧圆突出，后缘凹入，宽为长的2倍多，前缘分布有成对黑色或褐色条斑。小盾片宽大于长，基角斑与中央倒Y形纹为黑色。前翅黄褐色或灰褐色，翅脉着生有白色小毛，A_1、Cu_2、爪缝末端苍白色，具有4个端室，2或3个端前室。后足腿节刺式为2+0式。

雄性尾节侧瓣腹缘外侧有锥形小乳凸。基瓣方形，端缘中央三角形凸出。下生殖板宽短，亚端部外弯、几成直角，端缘生有长刚毛。阳基侧突宽条形，末端足状膨大、外弯，端部外缘分布有刚毛列。连索T形，端部隆起。阳茎弯管状，基部宽、端部狭，末端无刺突，背腔突发达，阳茎口位于亚端域腹面。雄性腹部内突狭小。文中测量单位均为mm。

1 齿突曲板叶蝉，新种 Tautocerus serristleus **sp. nov.** (图1~12)

体连翅长：雄虫6.5~6.6 mm。

头冠淡黄色，前缘近复眼处有1对黑色圆斑。颜面淡黄色，基部中央有灰色圆斑。单眼黄褐色，单眼内侧及下方各有1对黑色斑点；复眼黑褐色，后角1个三角形黑色斑块。前胸背板前缘淡黄色，分布有3对黑色条斑，后缘及中域灰褐色。小盾片淡黄色，基角斑及中央倒Y形纹均为黑色，此Y形纹两侧及下方各有1对黑色斑块。前翅淡黄褐色，翅脉褐色，具有3个端前室。

头冠宽短，中长大于复眼处冠长。颜面三角形，宽略大于长；单眼位于额缝末端，单眼之间距离明显大于单眼至复眼之间距离；舌侧板狭小，外缘末端伸达前唇基中域；前唇基近长方形，端部略宽于基部；触角末端具有狭长端片。前胸背板前弧形突出，后缘凹入；小盾片宽三角形，中长略小于宽。

头冠中长0.21，宽1.21。颜面长1.50，宽2.18。复眼宽0.44；单眼之间距离为0.53，单眼至复眼距离0.31。前胸背板中长0.84，宽1.9；小盾片中长0.95，宽1.25。前唇基长0.38，基部宽0.31，端部宽0.25。

雄性尾节侧瓣长三角形，基部窄，向端部渐变宽，锥状乳凸位于腹缘中域。基瓣宽三角形。下生殖板近中域外弯，亚端域边缘着生长刚毛。阳基侧突长条形，端部膨大、外弯，外缘及末端具生刚毛列，内缘锯齿形。连索T形，干端部方形隆起。阳茎基部宽，端部收狭、钩状，背腔突发达、端部膨大成卵圆形，阳茎口位于亚端部腹面。

正模 ♂，副模1 ♂，湖北武当山，1997-08-08，杨茂发采。

词源：新种的种名来源于拉丁语 serr (锯齿的) + style (阳基侧突) 复合而成，指阳基侧突末端锯齿形。

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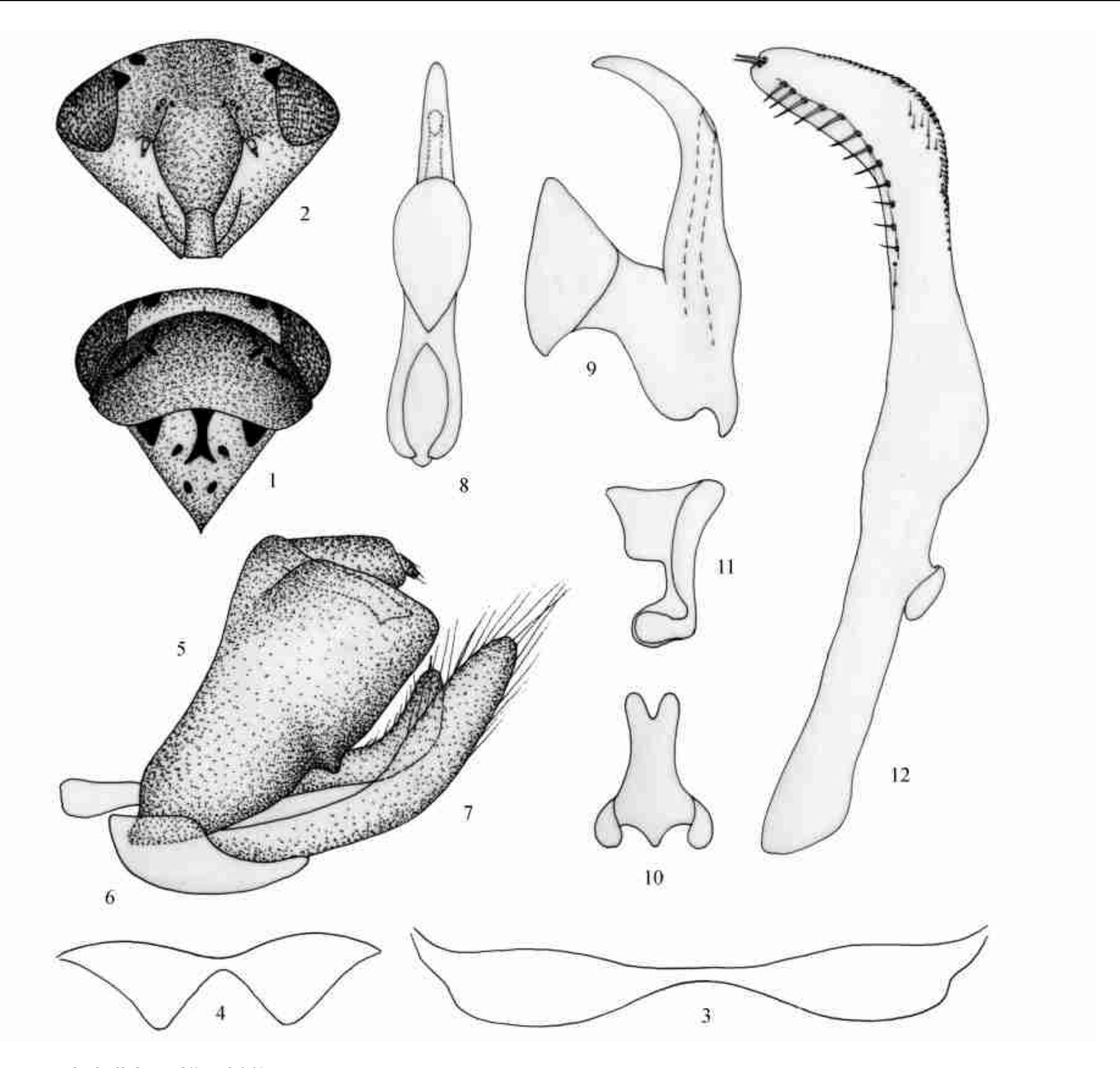


图 1~ 12 齿突曲板叶蝉, 新种 *Tautocerus serristleus* sp. nov.

1. 头、胸部背面 (head and thorax, dorsal view) 2. 颜面 (face) 3. 第 3 背内突 (3rd abdominal tergum from below) 4. 第 2 腹内突 (2nd abdominal sterna from above) 5. 尾节侧瓣侧面观 (pygofer side, lateral view) 6. 基瓣 (valve, lateral view) 7. 下生殖板 (subgenital plate) 8. 阳茎背面 (aedeagus, dorsal view) 9. 阳茎侧面 (aedeagus, lateral view) 10. 连索腹面 (connective, ventral view) 11. 连索侧面 (connective, lateral view) 12. 阳基侧突 (style)

新种与德氏曲板叶蝉 *Tautocerus dworakowskae* Anufriev 相似, 不同点是新种体较大 (雄性体连翅长 6.5~ 6.6 mm); 阳茎背腔突卵圆形、末端弧圆; 阳基侧突长条形, 端部膨大、外弯, 内缘具有若干小齿等明显可以区别。

2 德氏曲板叶蝉 Tautocerus dworakowskae **Anufriev (1971)** 中国新纪录 (图 13~ 22)

体连翅长: 雄虫 5.6 mm, 雌虫 5.8~ 6.0 mm。

头冠黄褐色, 前缘靠近复眼处有 1 对黑色圆斑。颜面黄褐色, 基部中央 1 个灰色斑, 额唇基及颊分布有红褐色斑纹。复眼红褐色, 后角 1 个三角形黑色斑; 单眼淡黄色。前胸背板前缘分布数条黑色条斑, 后缘及中部为灰褐色。小盾片黄色, 基角斑及中央倒 Y 形纹均为黑色, 此 Y 形纹两侧及下方各有 1 对黑色斑块。前翅灰白色, 具有 3 个端前室。

头冠中长 0.19, 宽 1.12。颜面长 1.47, 宽 1.96。复眼宽 0.38; 单眼之间距离为 0.58, 单眼至复眼距离 0.30 mm。前唇基长 0.36, 基宽等于端宽为 0.25, 前胸背板中长 0.71, 宽 1.63。小盾片中长 0.85, 宽 1.10。

雄性尾节侧瓣近长方形, 锥状乳凸位于腹缘亚端域。下生殖板宽短, 外弯, 末端着生长刚毛。连索 T 形, 干端部三角形隆起。阳茎基部宽, 端部收狭, 近端部箭头状, 背腔突发达、端部膨大两片, 阳茎口位于亚端部腹面。阳基侧突端部膨大、外弯, 外缘及末端具生刚毛列, 内缘具 1 个刺状突。

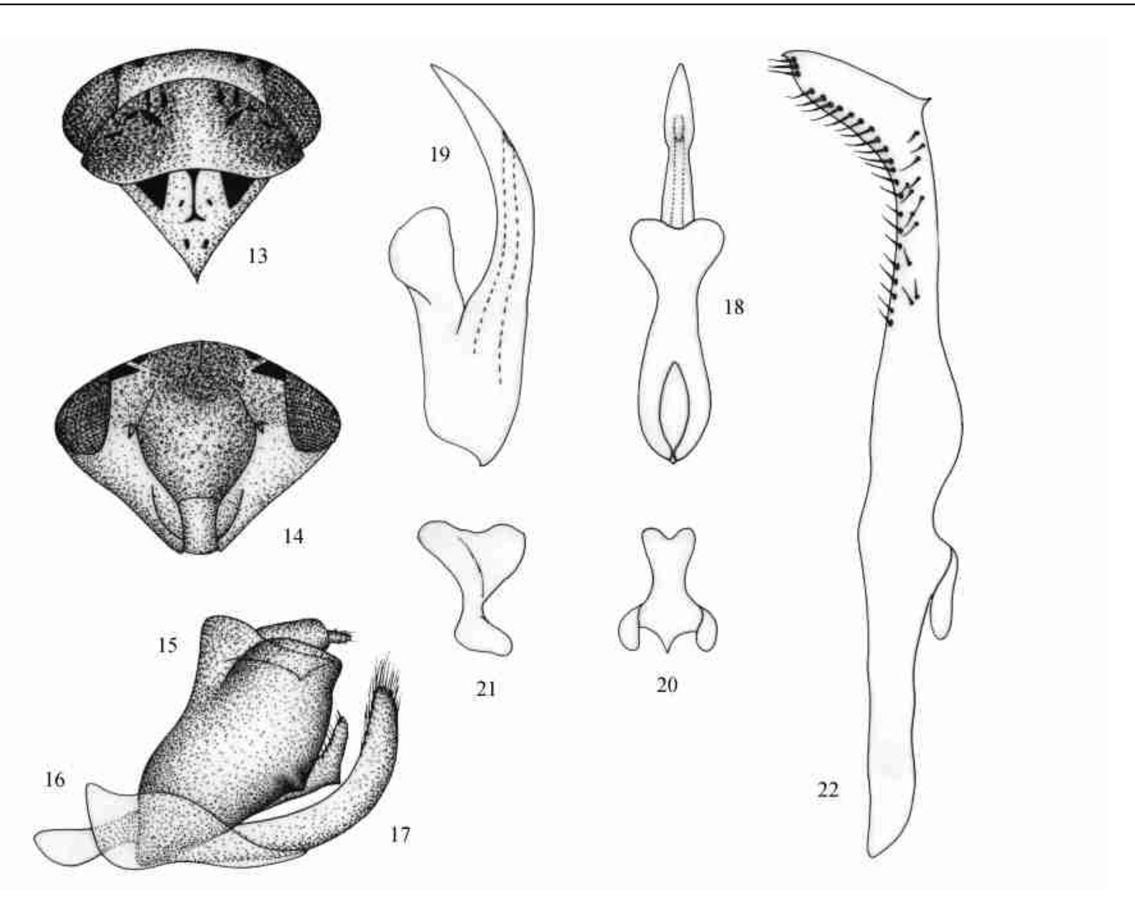


图 13~ 22　德氏曲板叶蝉 *Tautocerus dworakowskae* Anufriev

13. 头、胸部背面 (head and thorax, dorsal view)　14. 颜面 (face)　15. 尾节侧瓣侧面观 (pygofer side, lateral view) 16. 基瓣 (valve, ventral view)　17. 下生殖板 (subgenital plate)　18. 阳茎背面 (aedeagus, ventral view)　19. 阳茎侧面 (aedeagus, lateral view)　20. 连索腹面 (connective, ventral view)　21. 连索侧面 (connective, lateral view)　22. 阳基侧突 (style)

观察标本: 1 ♂, 5♀♀, 黑龙江伊春, 1996-08-17, 李子忠采; 3 ♂♂, 5♀♀, 内蒙古乌审旗, 2006-07-28, 张斌采。

分布: 中国 (黑龙江), 韩国。

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REFERENCES (参考文献)

Anufriev, G. A. 1971b. New and little-known leafhoppers (Homoptera, Auchenorrhyncha) from the Soviet Far East and neighboring countries. *Ent. Obozr.*, 50: 95-116.

Anufriev, G. A. and Emeljanov, A. F. 1988. Keys to the identification of insects of the Soviet Far East 2: Homoptera and Heteroptera. 1-972, Leningrad.

Dlabola, P. H. 1974. Generische Gliederung der Unterfamilie Idiocerinae in der Palaearktis (Homoptera, Auchenorrhyncha). *Acta Faun. Ent. Nat. Prag.*, 15: 59-68.

Kwon, Y. J. 1985. Classification of the leafhopper Pests of the Subfamily Idiocerinae from Korea. *The Korean J. of Entomology*, 15 (1): 61-73.

Kouh, Z-L 1992. Homoptera, Cicadelloidea. *In*: Chen, S-X (ed.), Insects of the Hengduan Mountains Region, Vol. 1. Science Press, Beijing. pp. 243-316. [葛钟麟, 1992. 同翅目, 叶蝉总科: 陈世骧 (主编), 横断山区昆虫, 第1册. 北京: 科学出版社. 243~316]

A NEW SPECIES AND A NEW RECORD OF TAUTOCERUS ANUFRIEV FROM CHINA (HEMIPTERA, CICADELLIDAE, IDIOCERINAE)

ZHANG Bin[1,2], LI Zi-Zhong[1], QI Bao-Ying[2]
1. *Institute of Entomology, Guizhou University, Guiyang 550025, China*
2. *College of Life Sciences and Technology, Inner Mongolia Normal University, Hohhot 010022, China, E-mail: zhangbin@imnu.edu.cn*

Abstract In this paper, a new Idiocerine leafhopper species and a new record species of the genus *Tautocerus* Anufriev, namely, *Tautocerus serristleus*, *Tautocerus dworakowskae* are described and illustrated from China. All the type specimens are deposited in the collection of Institute of Entomology, Guizhou University (IEGU). All measurements are in millimeters.

1 Tautocerus serristleus **sp. nov.** (Figs. 1-12)

Body length (incl. tegm.): ♂6.5-6.6 mm.

Vertex yellowish with a small black spot near to each eye. Face yellowish with a broad ashy median band. Ocelli and eyes yellowish brown, sometimes with two. pairs of smaller dark spots between the ocelli. Pronotum yellowish, with three pairs of black stripes, posterior margin and middle region of dark brown. Scutellum with a triangular black spot on each side corner, a black Y-shaped streak on the middle, and two pairs of rounded black spots of the Y-shape streak below and above. Forewing yellowish brown, venation dark brown, with 3 subapical cells.

Vertex short and broad, slightly shorter medially than length next to eyes. Face triangulate, wider than long. Ocelli are situated near the apex of frontal suture, distance between ocelli longer than between ocellus and eye. Antenna of male with a narrow palette. Lorum small and narrow. Pronotum with posterior margin concave. Scutellum triangular, slightly wider than long.

Medial length of vertex 0.21, width 1.21. Face length 1.50, width 2.18. eyes with 0.44. Distance between ocelli 0.53, distance from ocellus to eyes 0.31. Medial length of pronotum 0.84, width 1.90. Scutellum Length 0.95, width 1.25.

Male pygofer elongated triangle with a small cone-like protrusion on posterior margins; subgenital plate very short, abruptly curved at middle and with numerous long fine marginal setae distally. Style long and narrow, tapered to expanded and upturned apex, with ventral margin serrate subapically. Connective T-shaped, with square expanded apically in lateral aspect. Aedeagus with shaft evenly tapered to acute apex, without processes, dorsal apodeme with oval-shaped in dorsal aspect.

Male abdominal apodemes as Fig. 4.

Holotype ♂, China, Hubei Province, Mt. Wudang (32.23°N, 110.22°E), 8 Aug. 1997, collected by YANG Mao-Fa. Paratype 1 ♂, same data as holotype.

Etymology. The species name after Latin serr- (serrate) and *style*, meaning the apex of style with a small serrate, ventral margin.

This new species is similar to *Tautocerus dworakowskae* Anufriev, but can be distinguished by: 1) the body larger; 2) aedeagus dorsal apodeme with oval-shaped in dorsal aspect; 3) style rounded curved before apex and with serrate, ventral margin.

2 Tautocerus dworakowskae **New record to China** (Figs. 13-22)

Tautocerus dworakowskae Anufriev: Anufriev, G. A. 1971 Ent. Obozr. 50: 95-116.

Specimens examined. 1 ♂, 5 ♀♀, Heilongjiang (Yichun), 17 Aug. 1996, collected by LI Zi-Zhong, 3 ♂♂, 5 ♀♀, Inner Mongolia (Wushenqi), 28 July 2006, collected by ZHANG Bin.

Distribution. China (Heilongjiang); Korea.

Key words Hemiptera, Cicadellidae, Idiocerinae *Tautocerus*, new species, new record.